

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1.-25. (Cancelled)

26. (New) A method for wireless and non-contacting power and information transport in systems which include fixed and moving structural parts, comprising:

supplying a three-phase motor including a stator with three-phase windings and a secondary part with three-phase windings as a drive for the moving structural parts, wherein the three-phase windings of the stator and the three-phase windings of the secondary part are connected in a star-shaped configuration with an accessible star point, and wherein

the secondary part includes a four-pulse rectifier;

using a fundamental current for driving the three-phase motor;

using a neutral current for the transmission of at least one of power and information via the inductive coupling between the stator and the secondary part, wherein

the neutral current is three times the power supply frequency and has the same phase angle in all windings so as to induce a non-traveling time-variable field, and wherein

the star point is connected so as to allow the return flow of the neutral current; and

supplying devices, arranged on the moving structural parts of the system, with at least one of power and information.

27. (New) The method as claimed in claim 26, wherein the information transmitted via inductive coupling between the stator part and the secondary part is data being modulated and being transmitted in the form of signals.

28. (New) An apparatus for carrying out the method of claim 26, comprising:
the three-phase motor, including a stator and a secondary part, wherein the stator and the secondary part respectively have three-phase windings with the same number of pole pairs and with the same pole pitch.